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REVIEW OF SOVIET INVENTIONS(U) FOREIGN TECHNOLOGY DIV  
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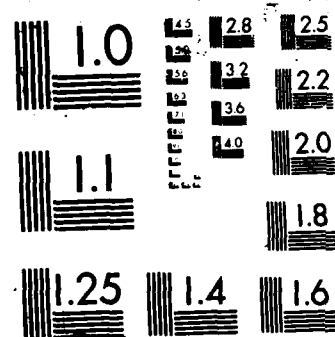
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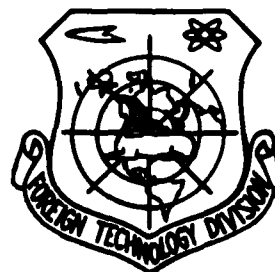
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# FOREIGN TECHNOLOGY DIVISION



REVIEW OF SOVIET INVENTIONS

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REVIEW OF SOVIET INVENTIONS

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## REVIEW OF SOVIET INVENTIONS

At the Moscow exhibition "Invention and Improvement," which introduced the USSR's achievements in this field, 3,280 of the most valuable exhibits from 1,557 plants and institutes were shown.

One of the most interesting and recent inventive designs is the MTM-300 multishuttle weaving machine. It occupies 30% less area than other machines of this type, while being 2-4 times more productive. Among other things, the fact that 15 countries (USA, Japan, WEST Germany, France, among others) purchased the patent attests to its design originality.

The USSR has produced a 1200 megawatt turbine generator. No other country in the world possesses such large units. The turbine generator is to be installed in the Kostroma Power Plant. As many as 17 inventions and many proposals for improvements were involved in the development of its design.

Also of great interest is a microexplosion generator. It looks like a normal crane and operates safely with a liquid mixture which explodes only after certain constituents are added to it. Therefore, shields and safety devices of any type are superfluous. The frequency of these microexplosions is controlled. Within several minutes the generator can crush any rock, ferro-concrete, or permafrost. It is very useful in geological operations, especially in the harsh northern climate. This invention was displayed at the international exhibition in Brno where it was awarded the gold medal. Fourteen countries have purchased the invention.

The authors of the inventions are members of VOIR [All-Union Society of Inventors and Efficiency Experts]. Many of the exhibits displaying the highest standard were made by people who didn't possess engineering degrees. The degree to which state subsidies for these type of operations are profitable is shown by the fact that every ruble allocated for invention projects generates a fifteen-fold return.

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